

Department of Theoretical Physics

Free Meson Seminar

<i>Speaker</i>	:	Bhavik Kodrani
<i>Topic</i>	:	CP violation in D0 meson
<i>Day, Date & Time</i>	:	Thursday, October 11, 2012 at 2:30 p.m.
<i>Place</i>	:	AG 69

Abstract

Recently LHCb and CDF experiments have reported the difference of CP asymmetries between $D^0 \rightarrow K^+K^-$ and $D^0 \rightarrow \pi^+\pi^-$, which deviates from the Standard Model by $\sim 3 \sigma$. This is the first evidence of CP violation in mesons containing charm quark. A phenomenological analysis of available data for $D^0 - \bar{D}^0$ mixing and the above decay processes will be presented.

(Nilmani Mathur)